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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/050,525	01/18/2002	Ronald J. Brandau	47176-00623USPT	47176-00623USPT 7755	
30223	7590 02/24/2004		EXAMINER		
JENKENS & GILCHRIST, P.C. 225 WEST WASHINGTON			LE, HOANGANH T		
SUITE 2600			ART UNIT	PAPER NUMBER	
CHICAGO,	IL 60606		2821		
			DATE MAILED: 02/24/200-	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	NU					
	Application No.	Applicant(s)				
	10/050,525	BRANDAU, RONALD J.				
Office Action Summary	Examiner	Art Unit				
	HoangAnh T Le	2821				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be to only within the statutory minimum of thirty (30) da I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDON	imely filed ays will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08 L	December 2003.					
2a)⊠ This action is FINAL . 2b)☐ Thi	This action is FINAL . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-17 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.)☐ Claim(s) is/are allowed.					
Claim(s) <u>1-17</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine						
10) The drawing(s) filed on is/are: a) acc	cepted or b) Dobjected to by the	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea 	ts have been received. ts have been received in Applicat prity documents have been receiv	tion No				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Pate Patent Application (PTO-152)				

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DETAILED ACTION

1. The amendment filed on December 8, 2003 is acknowledged.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1- 17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claims 1 and 16, the limitation "the relative lengths and others characteristics of the rod portion and said horn portion being configured such that said horn portion is the primary determinant of the radiation characteristics in a first band of frequencies and said dielectric rod is the primary determinant of the radiation characteristics in a second band of frequencies" finds no support in the specification at the time the application was filed.

In claims 6,11, and 17, the limitation "said dielectric rod portion being free of any surrounding dielectric material having a second dielectric constant different from said

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first dielectric constant" finds no support in the specification at the time the application was filed.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 6-10 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6 recites the limitation "said first dielectric constant" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim 17 recites the limitation "said first dielectric constant" in line 9. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Dyott et al (the US Patent No. 5,684,495, of record).

The Dyott et al reference teaches in figures 1 and 2 a feed horn comprising a horn portion 14 having an end aperture and an interior surface portion defining an exponential taper converging inwardly and an elongated dielectric rod portion 11

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substantially centered with respect to the horn portions and having an elongated tapered end part extending in the end aperture (figure 1). The horn has a generally cylindrical metallic interior surface portion which extends from the exponential taper and substantially encloses the tapered pm of the dielectric rod 14, such that a fee end of the rod portion is substantially coextensive with the plane of the aperture of the horn (figure 1). The interior surface portion having an exponential taper converges inwardly to an input bore of the horn portion (figure 2 and col. 2, line 56). The exponential taper begins and extends inwardly of the horn aperture, and wherein the dielectric rod tapered end part extends outwardly beyond the aperture (figue 2). The dielectric rod tapered end part extends such that the horn portion is substantially in a radiation shadow of the dielectric rod (figure 1).

Regarding claims 9 and 10, the limitations "the frequency range is from about 12 GHz to about 30 GHz and the frequency range is from about 5 GHz to about 7 GHz" are merely intended use which fail to patentably distinguish the claims.

Response to Arguments

8. In response to applicant's argument that Dyott et al does not teach the horn portion and dielectric rod being the primary determinants of the radiation of the radiation characteristics, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a

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process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

Since Dyott et al does show all the claimed structure, including an exponential horn taper and a dielectric rod at the center of the horn, the 102 rejection is proper.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HoangAnh T Le whose telephone number is (571) 272-1823. The examiner can normally be reached on 8:00am-4:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hoangah 1.0

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